Python Pipeline for Sonarqube

Run this first in vm where u will run the job

<mark>sudo apt install python3.12-venv</mark>

```
pipeline {
    agent any

    environment {
        SCANNER_HOME= tool 'sonar-scanner'
    }

    stages {

        stage('Git Checkout') {
            steps {
                git branch: 'main', credentialsId: 'git', url: 'https://github.com/jaiswaladi246/Multi-Tier-Python-Postgres.git'
            }
        }

stage('Setup Virtual Environment') {
    steps {
        sh '''
        rm -rf venv  # Remove any existing virtual environments
        python3 -m venv venv  # Create a new virtual environment
        chmod -R 755 venv
        bash -c "
        source venv/bin/activate
        pip install --upgrade pip
        pip install -r requirements.txt
        "
        '''
    }
}

        stage('Test') {
            steps {
                sh '''
                bash -c "
                source venv/bin/activate
                pytest --cov=app --cov-report=xml
                                    pytest --cov=app --cov-report=term-missing --disable-warnings
                "
                '''
            }
        }
```

```
    stage('Sonar') {
      steps {
        withSonarQubeEnv('sonar-server') {
            sh ''' $SCANNER_HOME/bin/sonar-scanner -Dsonar.projectKey=Python-project \
            -Dsonar.projectName=Python-project \
            -Dsonar.exclusions=venv/** \
            -Dsonar.sources=. \
            -Dsonar.python.coverage.reportPaths=coverage.xml'''
        }
      }
    }
  }
}
```